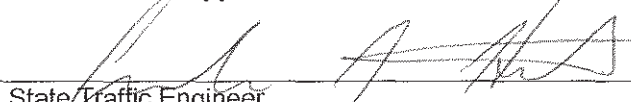
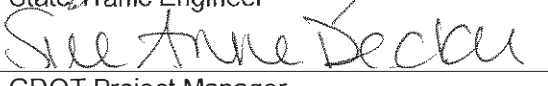


**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
LIMITED SCOPE PROJECT CONCEPT REPORT**

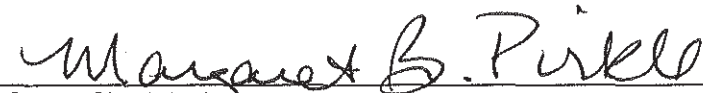
|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Project Type: <u>ITS</u>          | P.I. Number: <u>0013863</u>          |
| GDOT District: <u>7</u>           | County: <u>Cobb, Douglas, Fulton</u> |
| Federal Route Number: <u>I-20</u> | State Route Number: <u>402</u>       |
| Project Number: <u>NA</u>         |                                      |

To install ramp meters on 13 ramps along I-20 from SR 70 in Fulton County to SR 5 in Douglas County

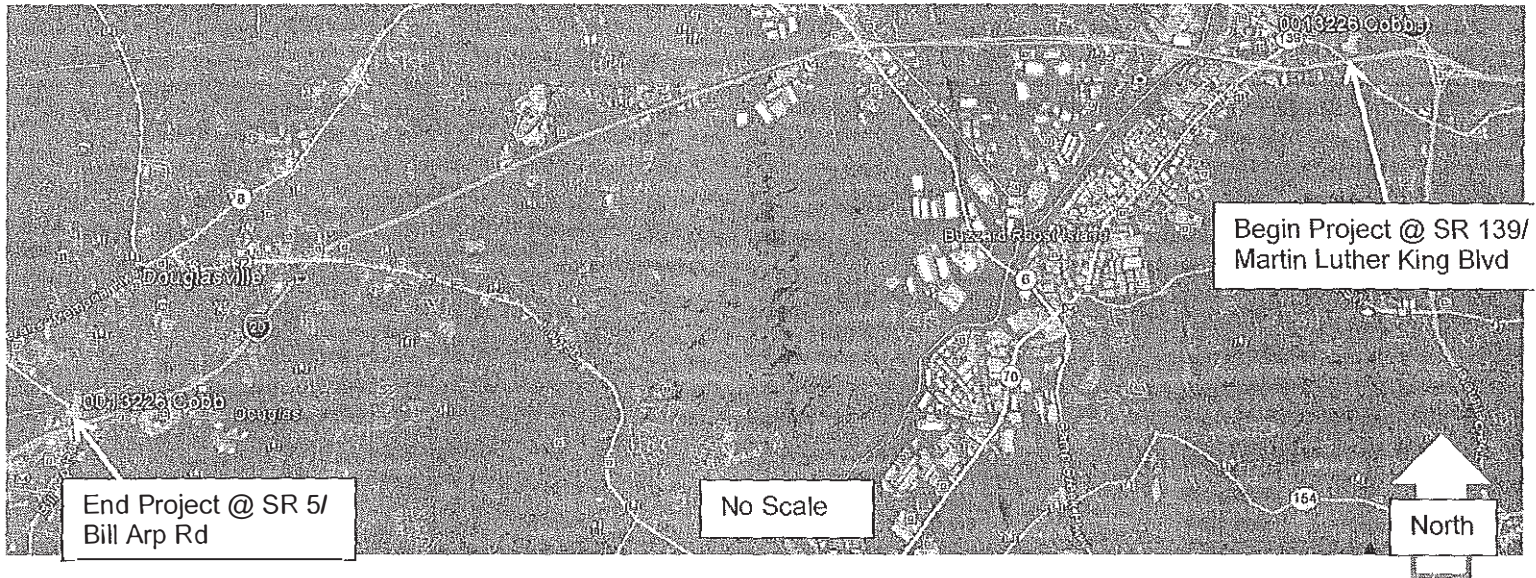
**Submitted for approval:**

|  |                                  |
|--|----------------------------------|
| <br>_____<br>State Traffic Engineer | <u>10/22/15</u><br>_____<br>Date |
| <br>_____<br>GDOT Project Manager   | <u>10.8.15</u><br>_____<br>Date  |

**Approval:**

|   |                                    |
|---|------------------------------------|
| Approve: <br>_____<br>GDOT Chief Engineer | <u>10.1.20.16</u><br>_____<br>DATE |
|---|------------------------------------|

## PROJECT LOCATION



Counties: Cobb, Douglas, Fulton

## PLANNING & BACKGROUND DATA

### Project Justification Statement:

SR 402/I-20 is a major interstate route that runs east to west. The entrance ramps onto I-20 at the following locations experience long queues and excessive delays: Fulton Industrial Blvd WB, Riverside Parkway EB and WB, SR 6/Thornton Rd EB and WB, Lee Road EB and WB, and Chapel Hill Road EB and WB. The Office of Traffic Operations proposes to install ramp meters at each location to improve flow onto the interstate by regulating the amount of traffic that is allowed onto the interstate. Overall this project will improve traffic flow and reduce delay onto I-20.

**Existing conditions:** Near the I-285 interchange, I-20 has 5 west bound lanes and 4 east bound lanes. The lanes are barrier separated with approximately 10 foot paved inside shoulders and approximately 20 foot paved outside shoulders. Currently the Georgia NaviGator ends at the SR 139/Martin Luther King Blvd overpass.

### Other projects in the area:

| PI Number | Project Description   | Let Date         | In Conflict with PI # 0013226? |
|-----------|---|------------------|--------------------------------|
| 0000379   | I-285/I-20 West Reconstruct Interchange – Design/Build              | NA – CST in 2021 | No                             |
| 0001760   | I-20 from SR 6 to SR 280 – HOV lanes                                | NA – CST in LR2  | No                             |
| 0001917   | I-20 @ Lee Rd   | 10/19/2012       | No                             |
| 0003435   | I-20 WB from Liberty Rd to SR 5/Bill Arp Road – HOV Lanes           | NA – CST in LR2  | No                             |
| 0006301   | SR 92 Reloc from Pine Drive to Cooper St Reloc-Phase II             | 4/18/14          | No                             |
| 0012618   | SR 5 from Rose Ave to Central Church Rd – Operational Improvements  | NA - CST in 2017 | No                             |
| 0012619   | I-20 @ SR 5 @ Bright Star Rd – Interchange Alt Analysis             | NA               | No                             |
| 0012622   | SR 5, SR 92 & Chappell Hill Rd - ITS Expansion                      | NA – CST in 2016 | No                             |
| 0013058   | I-20 West from SR 5 to SR 6 – HOV lanes                             | NA – CST in LR2  | No                             |
| 713630-   | I-20 from Fulton Industrial Blvd East to I-285 – Widening           | NA – CST in LR2  | No                             |
| 713630-   | I-20 from Fulton Industrial Blvd East to I-285                      | NA – CST in LR2  | No                             |
| M004253   | I-20 @ Sweetwater Creek & @ Six Flag Pkwy – Edgebeam & Joint Repair | 2011             | No                             |
| M004589   | I-20 from Carroll County to SR 5                                    | 2013             | No                             |
| M004605   | I-20 @ I Loc in Cobb & 4 Loc in Fulton – Joint Repair               | 2014             | No                             |
| M005119   | I-20 EB @ SR 6/Thornton Rd Exit Ramp – Separated Pipe Repair        | 2014             | No                             |

Counties: Cobb, Douglas, Fulton

|         |   |      |    |
|---------|---|------|----|
| M005120 | Slope Repair 1-20EB off-ramp from SR 6/Thornton Rd              | 2015 | No |
| M005198 | I-20 from Sweetwater Creek to CS 3541/Hill Street - Resurfacing | NA   | No |
| M005199 | I-20 from SR 5 to Sweetwater Creek                              | NA   | No |

**Description of the proposed project:**

This project includes the installation of ramp meters at the following ramps and the limits of disturbance will include the ramp from the side street to the interstate: Fulton Industrial Blvd WB, Riverside Parkway EB and WB, SR 6/Thornton Rd EB and WB, Lee Road EB and WB, SR 92 EB and WB, Chapel Hill Road EB and WB, SR 5/Bill Arp Road EB and WB.

**MPO:** Atlanta Regional Commission (ARC)

TIP # if applicable NA

**TIA Regional Commission:** Atlanta Regional Commission

RC Project ID NA

**MPO Name Congressional District(s):** 13, 5**Federal Oversight:** ☒ Exempt ☐ State Funded ☐ Other**Projected Traffic:** ADT or AADT

Current Year (20WW): NA Open Year (20XX): NA

Design Year (20YY): NA

Traffic Projections Performed by: NA

**Functional Classification (Mainline):** Urban Interstate Principal Arterial**Complete Streets - Bicycle, Pedestrian, and/or Transit Standards Warrants:**Warrants met: ☒ None ☐ Bicycle ☐ Pedestrian ☐ Transit**DESIGN AND STRUCTURAL****Major Structures:** See the list below.

| Structure ID | Existing   | Proposed         | Attachment Needed? |
|--------------|--|------------------|--------------------|
| 121-0166-0   | 159' Bridge I-20 over SR 139/Martin Luther King Blvd | Same as existing | Yes                |
| 121-0165-0   | 240' Bridge I-20 over SR 70/Fulton Industrial Blvd   | Same as existing | Yes                |
| 121-0164-0   | 149' Bridge I-20 over CSX Railroad                   | Same as existing | Yes                |
| 067-0090-0   | 452' Bridge I-20 over the Chattahoochee River        | Same as existing | Yes                |
| 067-0089-0   | 147' Bridge I-20 over Six Flags Road                 | Same as existing | Yes                |
| 067-0172-0   | 304' Bridge Six Flags Drive over I-20                | Same as existing | No                 |
| 067-0135-0   | 440' Factory Shoals Rd over I-20                     | Same as existing | No                 |
| 097-0005-0   | 302' Bridge SR 6/Thornton Road over I-20             | Same as existing | No                 |
| 097-0025-0   | 300' Bridge I-20 over Sweetwater                     | Same as existing | Yes                |



Counties: Cobb, Douglas, Fulton

|            |  |                  |    |
|------------|--|------------------|----|
|            | Creek  |                  |    |
| 097-0043-0 | 218' Bridge Mount Vernon Rd over I-20            | Same as existing | No |
| 097-0027-0 | 260' Bridge Lee Road over I-20                   | Same as existing | No |
| 097-0023-0 | 43'- 4 Barrel Culvert I-20 over Beaver Run Creek | Same as existing | No |
| 097-0010-0 | 243' Bridge North County Line Road over I-20     | Same as existing | No |
| 097-0032-0 | 227' Bridge Burnt Hickory Rd over I-20           | Same as existing | No |
| 097-5064-0 | 439' Bridge SR 92/Fairburn Rd over I-20          | Same as existing | No |
| 097-0011-0 | 216' Bridge Prestley Mill Rd over I-20           | Same as existing | No |
| 097-0050-0 | 351' Bridge Chappell Hill Rd over I-20           | Same as existing | No |
| 097-0004-0 | 247' Bridge SR 5/Bill Arp Rd over I-20           | Same as existing | No |

**Major Interchanges/Intersections:**

- I-20 @ SR 70/Fulton Industrial Blvd
- I-20 @ Riverside Pkwy
- I-20 @ Six Flags Rd
- I-20 @ SR 6/Thornton Rd
- I-20 @ Lee Rd
- I-20 @ SR 92/Fairburn Rd
- I-20 @ Chappell Hill Rd
- I-20 @ SR 5/Bill Arp Rd

Lighting required: ☒ No ☐ Yes

Transportation Management Plan [TMP] Required: ☒ No ☐ Yes  
 If Yes: Project classified as: ☐ Non-Significant ☐ Significant  
 TMP Components Anticipated: ☐ TTC ☐ TO ☐ PI

Will Context Sensitive Solutions procedures be utilized? ☒ No ☐ Yes

Design Exceptions to FHWA/AASHTO controlling criteria anticipated: No

Design Variances to GDOT Standard Criteria anticipated: No

**UTILITY AND PROPERTY**Temporary State Route Needed: ☒ No ☐ Yes ☐ Undetermined

Railroad Involvement: NA

**Utility Involvements:**SUE Required: ☒ No ☐ YesPublic Interest Determination Policy and Procedure recommended? ☒ No ☐ YesRight-of-Way: Existing width: Varies ft. Proposed width: Same as existing

Required Right-of-Way anticipated: ☒ No ☐ Yes ☐ Undetermined

Easements anticipated: ☒ None ☐ Temporary ☐ Permanent ☐ Utility ☐ Other

Anticipated number of impacted parcels:

Displacements anticipated: Total: 0  
Businesses: 0  
Residences: 0  
Other: 0

## ENVIRONMENTAL AND PERMITS

Anticipated Environmental Document:

GEPA: ☐ NEPA: ☐ CE ☒ PCE

MS4 Compliance – Is the project located in an MS4 area? ☒ No ☐ Yes

Environmental Permits, Variances, Commitments, and Coordination anticipated:

### Air Quality:

Is the project located in a PM 2.5 Non-attainment area? ☐ No ☒ Yes  
Is the project located in an Ozone Non-attainment area? ☐ No ☒ Yes  
Is a Carbon Monoxide hotspot analysis required? ☒ No ☐ Yes  
(if any of the above are answered "Yes", additional analysis may be required)

NEPA/GEPA Comments & Information: The work for this project is minor and should be cleared with a PCE.

## COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Project Meetings: PTIP Meeting held September 10, 2014.

| Project Activity                              | Party Responsible for Performing Task(s) |
|---|--|
| Concept Development                           | GDOT                                     |
| Design  | Atkins                                   |
| Right-of-Way Acquisition                      | NA                                       |
| Utility Relocation                            | NA                                       |
| Letting to Contract                           | GDOT                                     |
| Construction Supervision                      | GDOT                                     |
| Providing Material Pits                       | NA                                       |
| Providing Detours                             | NA                                       |
| Environmental Studies, Documents, and Permits | GDOT                                     |
| Environmental Mitigation                      | NA                                       |
| Construction Inspection & Materials Testing   | GDOT                                     |

**Other coordination to date:** These ramp meters were part of PI # 0013226. Some coordination has taken place under that project, which was let in March 2015.

**Project Cost Estimate and Funding Responsibilities:**

|                  | Breakdown of PE | ROW  | Reimbursable Utility | CST*           | Environmental Mitigation | Total Cost     |
|------------------|-----------------|------|----------------------|----------------|--------------------------|----------------|
| Funded By        | GDOT            | NA   | GDOT                 | GDOT           | NA                       |                |
| \$ Amount        | \$250,000.00    | 0.00 | 0.00                 | \$1,630,829.61 | 0.00                     | \$1,880,829.61 |
| Date of Estimate | 10/6/2015       |      |                      | 10/6/2015      |                          |                |

\*CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

## ALTERNATIVES DISCUSSION

**Preferred Alternative:**

|   |        |                       |                |
|---|--------|-----------------------|----------------|
| Estimated Property Impacts:                                       | None   | Estimated Total Cost: | \$1,880,829.61 |
| Estimated ROW Cost:   | \$0.00 | Estimated CST Time:   | 12 months      |
| <b>Rationale:</b> It satisfies the justification for the project. |        |                       |                |

**No-Build Alternative:**

|  |        |                       |        |
|--|--------|-----------------------|--------|
| Estimated Property Impacts:                                      | None   | Estimated Total Cost: | \$0.00 |
| Estimated ROW Cost:  | \$0.00 | Estimated CST Time:   | None   |
| <b>Rationale:</b> It does not satisfy the project justification. |        |                       |        |

**Comments/Additional Information:**

## LIST OF ATTACHMENTS/SUPPORTING DATA

1. Cost Estimate